Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_per.\_\_\_\_\_ ***GEO:*** Chords & More—Monday, Feb. 22nd

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| ***1.*** What ***TESTS/Projects*** do you have coming up that make you ***NERVOUS or Anxious***? Why?  ***None?*** Then, what class is causing you the ***most STRESS*** right now? ***Why?*** | ***2.*** What SONG/Performer makes ***you CALMEST?***  ***What other STRATEGIES/mechanisms*** do you have to relieve ***STRESS?***  ***A.***  ***B.*** |

*** Take out your TOOLKIT—We will Define CHORDS, Naming a Circle and Intersecting Chords and TRIG Tools***

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| Name the part of the figure that is listed in the answer column.  O is the center of the circle. (Example: Diameter, chord, Etc.) | |  |  | | --- | --- | | a. *AB*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  b. ∠a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  c. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  d. ∠b\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  e. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  f. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  g. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  h. *DCB*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  i. *DAF*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  | |

**Investigation:**

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| A. You are trying to find the length of the chord. What tools do you have to solve the problem below?  Name the Circle: Find the Chord Length: |
| ***Compass Practice:***   1. Find the length of the chord of a circle with radius 3 m and a central angle of 100∘.   Name the Circle: Find the Chord Length:   1. Find the length of the chord of a circle with radius 8 km and a central angle of 130∘.   Name the Circle: Find the Chord Length: |
| B. What tools do you have to solve the problem below? IN the circle below, the chord segments have the following lengths: D = 8, C = 3, A =6, Find B. |
| 1. Using your compass, Create a circle and then create to intersecting chords. Measure three of the segments and calculate the fourth.  Name the Circle: Find the Chord Length: |

***Mixed Review:***

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***Homework:***

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| C-Quality  1. Draw a circle that represents the following situation, then Find the length of the chord of a circle with radius 2 cm and a central angle of 112∘.  Name the Circle: Find the Chord Length:  2. IN the circle below, the chord segments have the following lengths: D = 10, B = 6, A =8, Find C. |
| B-Quality |
| A-Quality    Suppose you knew the length of the chord, the length of the radius, and the central angle of the above circle. Describe three way to find the length of center height of the given triangle.  A.  B.  C. |
| ***Extension:*** |